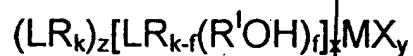
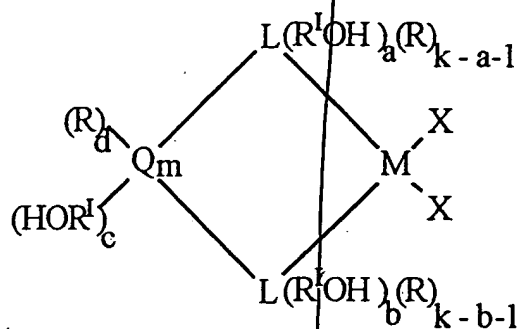


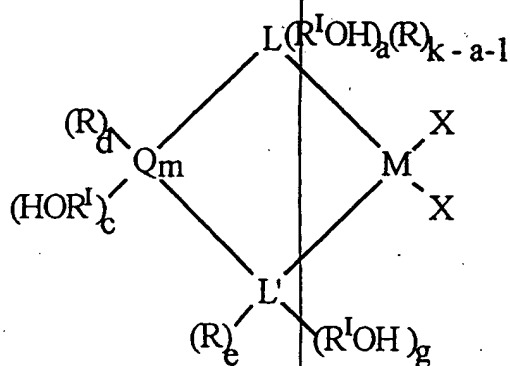
1. (amended twice) A heterogeneous catalytic component obtained by reacting a porous inorganic support with a metallocene compound, wherein the metallocene compound is defined by formula I, II, or III:



I,



II, or



III,

wherein:

the **L** groups are equal to or different from each other, wherein each **L** is selected from the group consisting of: cyclopentadienyl, indenyl, tetrahydroindenyl, fluorenyl, octahydrofluorenyl, and benzoindenyl;

C1
Cont
Sub E1
each **R** is independently hydrogen, linear or branched C₁-C₂₀ alkyl, linear or branched C₃-C₂₀ cycloalkyl, linear or branched C₆-C₂₀ aryl, linear or branched C₃-C₂₀ alkenyl, linear or branched C₇-C₂₀ arylalkyl, linear or branched C₇-C₂₀ alkylaryl, linear or branched C₈-C₂₀ arylalkenyl, or a group SiR^{II}₃, wherein the C₁-C₂₀ alkyl, the C₃-C₂₀ cycloalkyl, the C₆-C₂₀ aryl, the C₃-C₂₀ alkenyl, the C₇-C₂₀ arylalkyl, the C₇-C₂₀ alkylaryl, and the C₈-C₂₀ arylalkenyl are optionally substituted with 1 to 10 halogen atoms;

the **R^I** groups are equal to or different from each other, wherein each **R^I** is a divalent aliphatic or aromatic hydrocarbon group containing from 1 to 20 carbon atoms, optionally containing from 1 to 5 heteroatoms of groups 14 to 16 of the Periodic Table of the Elements, and optionally containing boron;

each **Q** is independently B, C, Si, Ge, or Sn;

M is a lanthanide, an actinide, or a metal of group 3, 4, or 10 of the Periodic Table of the Elements;

each **X** is independently hydrogen, chlorine, bromine, OR^{II}, NR^{II}₂, C₁-C₂₀ alkyl, or C₆-C₂₀ aryl

each **R^{II}** is independently linear or branched C₁-C₂₀ alkyl, linear or branched C₃-C₂₀ cycloalkyl, linear or branched C₆-C₂₀ aryl, linear or branched C₃-C₂₀ alkenyl, linear or branched C₇-C₂₀

arylalkyl, linear or branched C₇-C₂₀ arylalkenyl, or linear or branched C₇-C₂₀ alkylaryl;

L' is N or O;

when L is cyclopentadienyl, k is equal to 5; when L is indenyl, k is equal to 7; when L is fluorenyl or benzoindenyl, k is equal to 9; when L is tetrahydroindenyl, k is equal to 11; and when L is octahydrofluorenyl, k is equal to 17;

z is equal to 0, 1, or 2;

x is equal to 1, 2, or 3;

y is equal to 1, 2, or 3;

x + y + z is equal to a valence of M;

m is equal to 1, 2, 3 or 4;

a is an integer whose value ranges from 0 to k-1;

b is an integer whose value ranges from 0 to k-1;

f is an integer whose value ranges from 1 to k;

g is equal to 0 to 1;

c is equal to 0 or 1;

e is equal to 0 or 1;

a + b + c is at least 1;

a + g + c is at least 1;

d is equal to 0, 1, or 2;

when Q is B, then c + d = 1;

when Q is C, Si, Ge, or Sn, then c + d = 2;

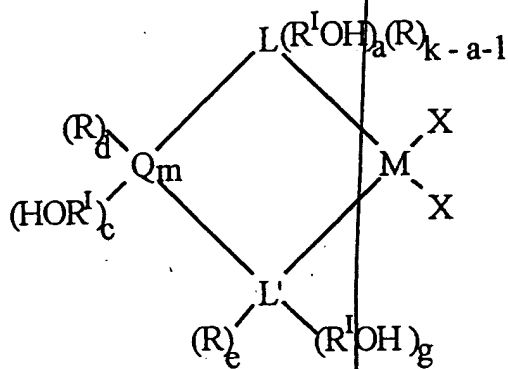
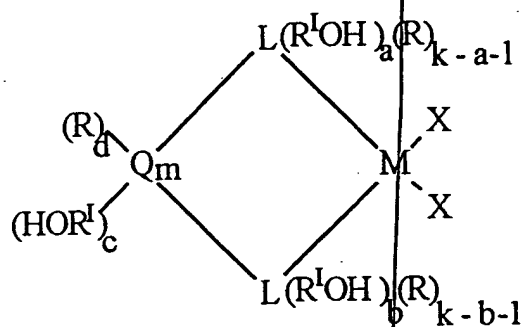
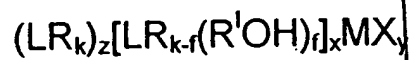
when L' is N, then g + e = 1; and

when L' is O, then g = 0 and e = 0.

sub E4
C2
5. (amended three times) A heterogeneous catalytic component according to claim 1 wherein the inorganic support is previously treated with alumoxane or trialkylaluminum.

sub E5
6. (amended twice) A heterogeneous catalytic component obtained by reacting an alumoxane or a trialkylaluminum with a metallocene

compound defined by formula I, II, or III:



I,

II, or

III,

wherein:

Sub ES
the **L** groups are equal to or different from each other, wherein each **L** is selected from the group consisting of: cyclopentadienyl, indenyl, tetrahydroindenyl, fluorenyl, octahydrofluorenyl, and benzoindenyl;

C2
each **R** is independently hydrogen, linear or branched C_1-C_{20} alkyl, linear or branched C_3-C_{20} cycloalkyl, linear or branched C_6-C_{20} aryl, linear or branched C_3-C_{20} alkenyl, linear or branched C_7-C_{20} arylalkyl, linear or branched C_7-C_{20} alkylaryl, linear or branched C_8-C_{20} arylalkenyl, or a group SiR^{II}_3 , wherein the C_1-C_{20} alkyl, the C_3-C_{20} cycloalkyl, the C_6-C_{20} aryl, the C_3-C_{20} alkenyl, the C_7-C_{20} arylalkyl, the C_7-C_{20} alkylaryl, and the C_8-C_{20} arylalkenyl are optionally substituted with 1 to 10 halogen atoms;

the **R^I** groups are equal to or different from each other, wherein each **R^I** is a divalent aliphatic or aromatic hydrocarbon group containing from 1 to 20 carbon atoms, optionally containing from 1 to 5 heteroatoms of groups 14 to 16 of the Periodic Table of the Elements, and optionally containing boron;

each **Q** is independently B, C, Si, Ge, or Sn;

M is a lanthanide, an actinide, or a metal of group 3, 4, or 10 of the Periodic Table of the Elements;

each **X** is independently hydrogen, chlorine, bromine, OR^{II} , NR^{II}_2 , C_1-C_{20} alkyl, or C_6-C_{20} aryl;

each **R^{II}** is independently linear or branched C_1-C_{20} alkyl, linear or branched C_3-C_{20} cycloalkyl, linear or branched C_6-C_{20} aryl, linear or branched C_3-C_{20} alkenyl, linear or branched C_7-C_{20} arylalkyl, linear or branched C_7-C_{20} arylalkenyl, or linear or